



760028\_1.TXT  
SEQUENCE LISTING

<110> ROEWKAMP, Walter  
ROSE-JOHN, Stefan

<120> CONJUGATE FOR MODIFYING INTERACTIONS BETWEEN PROTEINS

<130> 012627-009

<140> 09/142,471

<141> 1998-11-04

<150> PCT/DE97/00458

<151> 1997-03-07

<150> DE 196 08 813.5

<151> 1996-03-07

<160> 17

<170> PatentIn Ver. 2.0

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<223> Description of Unknown Organism:A conjugate  
comprising two polypeptides with a mutual  
affinity.

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Met Leu Ala Val Gly Cys Ala  
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ctg ctg gct gcc ctg ctg gcc gcg ccg gga gcg gcg ctg gcc cca agg 102  
Leu Leu Ala Ala Leu Leu Ala Ala Pro Gly Ala Ala Leu Ala Pro Arg  
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Gly Asp Ser Val Thr Leu Thr Cys Pro Gly Val Glu Pro Glu Asp Asn  
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gcc act gtt cac tgg gtg ctc agg aag ccg gct gca ggc tcc cac ccc 246  
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|            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |            |     |  |
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| Ala        | Thr        | Val        | His<br>40  | Trp        | Val        | Leu        | Arg        | Lys<br>45  | Pro        | Ala        | Ala        | Gly        | Ser<br>50  | His        | Pro        |     |  |
| agc        | aga        | tgg        | gct        | ggc        | atg        | gga        | agg        | agg        | ctg        | ctg        | ctg        | agg        | tcg        | gtg        | cag        | 294 |  |
| Ser        | Arg        | Trp<br>55  | Ala        | Gly        | Met        | Gly        | Arg<br>60  | Arg        | Leu        | Leu        | Leu        | Arg<br>65  | Ser        | Val        | Gln        |     |  |
| ctc        | cac        | gac        | tct        | gga        | aac        | tat        | tca        | tgc        | tac        | cgg        | gcc        | ggc        | cgc        | cca        | gct        | 342 |  |
| Leu        | His<br>70  | Asp        | Ser        | Gly        | Asn        | Tyr<br>75  | Ser        | Cys        | Tyr        | Arg        | Ala<br>80  | Gly        | Arg        | Pro        | Ala        |     |  |
| ggg        | act        | gtg        | cac        | ttg        | ctg        | gtg        | gat        | gtt        | ccc        | ccc        | gag        | gag        | ccc        | cag        | ctc        | 390 |  |
| Gly<br>85  | Thr        | Val        | His        | Leu        | Leu<br>90  | Val        | Asp        | Val        | Pro        | Pro<br>95  | Glu        | Glu        | Pro        | Gln        | Leu<br>100 |     |  |
| tcc        | tgc        | ttc        | cgg        | aag        | agc        | ccc        | ctc        | agc        | aat        | gtt        | gtt        | tgt        | gag        | tgg        | ggc        | 438 |  |
| Ser        | Cys        | Phe        | Arg        | Lys<br>105 | Ser        | Pro        | Leu        | Ser        | Asn<br>110 | Val        | Val        | Cys        | Glu        | Trp<br>115 | Gly        |     |  |
| cct        | cgg        | agc        | acc        | cca        | tcc        | ctg        | acg        | aca        | aag        | gct        | gtg        | ctc        | ttg        | gtg        | agg        | 486 |  |
| Pro        | Arg        | Ser        | Thr<br>120 | Pro        | Ser        | Leu        | Thr        | Thr<br>125 | Lys        | Ala        | Val        | Leu        | Leu<br>130 | Val        | Arg        |     |  |
| aag        | ttt        | cag        | aac        | agt        | ccg        | gcc        | gaa        | gac        | ttc        | cag        | gag        | ccg        | tgc        | cag        | tat        | 534 |  |
| Lys        | Phe        | Gln<br>135 | Asn        | Ser        | Pro        | Ala        | Glu<br>140 | Asp        | Phe        | Gln        | Glu        | Pro<br>145 | Cys        | Gln        | Tyr        |     |  |
| tcc        | cag        | gag        | tcc        | cag        | aag        | ttc        | tcc        | tgc        | cag        | tta        | gca        | gtc        | ccg        | gag        | gga        | 582 |  |
| Ser        | Gln<br>150 | Glu        | Ser        | Gln        | Lys        | Phe<br>155 | Ser        | Cys        | Gln        | Leu        | Ala<br>160 | Val        | Pro        | Glu        | Gly        |     |  |
| gac        | agc        | tct        | ttc        | tac        | ata        | gtg        | tcc        | atg        | tgc        | gtc        | gcc        | agt        | agt        | gtc        | ggg        | 630 |  |
| Asp<br>165 | Ser        | Ser        | Phe        | Tyr        | Ile<br>170 | Val        | Ser        | Met        | Cys        | Val<br>175 | Ala        | Ser        | Ser        | Val        | Gly<br>180 |     |  |
| agc        | aag        | ttc        | agc        | aaa        | act        | caa        | acc        | ttt        | cag        | ggt        | tgt        | gga        | atc        | ttg        | cag        | 678 |  |
| Ser        | Lys        | Phe        | Ser        | Lys<br>185 | Thr        | Gln        | Thr        | Phe        | Gln<br>190 | Gly        | Cys        | Gly        | Ile        | Leu<br>195 | Gln        |     |  |
| cct        | gat        | ccg        | cct        | gcc        | aac        | atc        | aca        | gtc        | act        | gcc        | gtg        | gcc        | aga        | aac        | ccc        | 726 |  |
| Pro        | Asp        | Pro        | Pro<br>200 | Ala        | Asn        | Ile        | Thr        | Val<br>205 | Thr        | Ala        | Val        | Ala        | Arg<br>210 | Asn        | Pro        |     |  |
| cgc        | tgg        | ctc        | agt        | gtc        | acc        | tgg        | caa        | gac        | ccc        | cac        | tcc        | tgg        | aac        | tca        | tct        | 774 |  |
| Arg        | Trp<br>215 | Leu        | Ser        | Val        | Thr        | Trp        | Gln<br>220 | Asp        | Pro        | His        | Ser        | Trp<br>225 | Asn        | Ser        | Ser        |     |  |
| ttc        | tac        | aga        | cta        | cgg        | ttt        | gag        | ctc        | aga        | tat        | cgg        | gct        | gaa        | cgg        | tca        | aag        | 822 |  |
| Phe        | Tyr<br>230 | Arg        | Leu        | Arg        | Phe        | Glu<br>235 | Leu        | Arg        | Tyr        | Arg        | Ala<br>240 | Glu        | Arg        | Ser        | Lys        |     |  |
| aca        | ttc        | aca        | aca        | tgg        | atg        | gtc        | aag        | gac        | ctc        | cag        | cat        | cac        | tgt        | gtc        | atc        | 870 |  |
| Thr<br>245 | Phe        | Thr        | Thr        | Trp        | Met<br>250 | Val        | Lys        | Asp        | Leu        | Gln<br>255 | His        | His        | Cys        | Val        | Ile<br>260 |     |  |
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| His        | Asp        | Ala        | Trp        | Ser<br>265 | Gly        | Leu        | Arg        | His        | Val<br>270 | Val        | Gln        | Leu        | Arg        | Ala<br>275 | Gln        |     |  |
| gag        | gag        | ttc        | ggg        | caa        | ggc        | gag        | tgg        | agc        | gag        | tgg        | agc        | ccg        | gag        | gcc        | atg        | 966 |  |
| Glu        | Glu        | Phe        | Gly<br>280 | Gln        | Gly        | Glu        | Trp        | Ser<br>285 | Glu        | Trp        | Ser        | Pro        | Glu<br>290 | Ala        | Met        |     |  |

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| ggt<br>Gly        | tct<br>Ser<br>310 | gga<br>Gly        | ggt<br>Gly        | gga<br>Gly        | ggt<br>Gly        | tct<br>Ser<br>315 | gga<br>Gly        | ggt<br>Gly        | gga<br>Gly        | ggt<br>Gly        | tct<br>Ser<br>320 | gtc<br>Val        | gag<br>Glu        | cca<br>Pro        | gta<br>Val        | 1062 |
| ccc<br>Pro<br>325 | cca<br>Pro        | gga<br>Gly        | gaa<br>Glu        | gat<br>Asp        | tcc<br>Ser<br>330 | aaa<br>Lys        | gat<br>Asp        | gta<br>Val        | gcc<br>Ala        | gcc<br>Ala<br>335 | cca<br>Pro        | cac<br>His        | aga<br>Arg        | cag<br>Gln        | cca<br>Pro<br>340 | 1110 |
| ctc<br>Leu        | acc<br>Thr        | tct<br>Ser        | tca<br>Ser        | gaa<br>Glu<br>345 | cga<br>Arg        | att<br>Ile        | gac<br>Asp        | aaa<br>Lys        | caa<br>Gln<br>350 | att<br>Ile        | cgg<br>Arg        | tac<br>Tyr        | atc<br>Ile        | ctc<br>Leu<br>355 | gac<br>Asp        | 1158 |
| ggc<br>Gly        | atc<br>Ile        | tca<br>Ser        | gcc<br>Ala<br>360 | ctg<br>Leu        | aga<br>Arg        | aag<br>Lys        | gag<br>Glu        | aca<br>Thr<br>365 | tgt<br>Cys        | aac<br>Asn        | aag<br>Lys        | agt<br>Ser        | aac<br>Asn<br>370 | atg<br>Met        | tgt<br>Cys        | 1206 |
| gaa<br>Glu        | agc<br>Ser        | agc<br>Ser<br>375 | aaa<br>Lys        | gag<br>Glu        | gca<br>Ala        | ctg<br>Leu        | gca<br>Ala<br>380 | gaa<br>Glu        | aac<br>Asn        | aac<br>Asn        | ctg<br>Leu        | aac<br>Asn<br>385 | ctt<br>Leu        | cca<br>Pro        | aag<br>Lys        | 1254 |
| atg<br>Met        | gct<br>Ala<br>390 | gaa<br>Glu        | aaa<br>Lys        | gat<br>Asp        | gga<br>Gly        | tgc<br>Cys<br>395 | ttc<br>Phe        | caa<br>Gln        | tct<br>Ser        | gga<br>Gly        | ttc<br>Phe<br>400 | aat<br>Asn        | gag<br>Glu        | gag<br>Glu        | act<br>Thr        | 1302 |
| tgc<br>Cys<br>405 | ctg<br>Leu        | gtg<br>Val        | aaa<br>Lys        | atc<br>Ile        | atc<br>Ile<br>410 | act<br>Thr        | ggt<br>Gly        | ctt<br>Leu        | ttg<br>Leu        | gag<br>Glu<br>415 | ttt<br>Phe        | gag<br>Glu        | gta<br>Val        | tac<br>Tyr        | cta<br>Leu<br>420 | 1350 |
| gag<br>Glu        | tac<br>Tyr        | ctc<br>Leu        | cag<br>Gln        | aac<br>Asn<br>425 | aga<br>Arg        | ttt<br>Phe        | gag<br>Glu        | agt<br>Ser        | agt<br>Ser<br>430 | gag<br>Glu        | gaa<br>Glu        | caa<br>Gln        | gcc<br>Ala<br>435 | aga<br>Arg        | gct<br>Ala        | 1398 |
| gtg<br>Val        | cag<br>Gln        | atg<br>Met        | agt<br>Ser<br>440 | aca<br>Thr        | aaa<br>Lys        | gtc<br>Val        | ctg<br>Leu        | atc<br>Ile<br>445 | cag<br>Gln        | ttc<br>Phe        | ctg<br>Leu        | cag<br>Gln        | aaa<br>Lys<br>450 | aag<br>Lys        | gca<br>Ala        | 1446 |
| aag<br>Lys        | aat<br>Asn        | cta<br>Leu<br>455 | gat<br>Asp        | gca<br>Ala        | ata<br>Ile        | acc<br>Thr        | acc<br>Thr<br>460 | cct<br>Pro        | gac<br>Asp        | cca<br>Pro        | acc<br>Thr        | aca<br>Thr<br>465 | aat<br>Asn        | gcc<br>Ala        | agc<br>Ser        | 1494 |
| ctg<br>Leu        | ctg<br>Leu        | acg<br>Thr        | aag<br>Lys        | ctg<br>Leu        | cag<br>Gln        | gca<br>Ala<br>475 | cag<br>Gln        | aac<br>Asn        | cag<br>Gln        | tgg<br>Trp        | ctg<br>Leu<br>480 | cag<br>Gln        | gac<br>Asp        | atg<br>Met        | aca<br>Thr        | 1542 |
| act<br>Thr<br>485 | cat<br>His        | ctc<br>Leu        | att<br>Ile        | ctg<br>Leu        | cgc<br>Arg<br>490 | agc<br>Ser        | ttt<br>Phe        | aag<br>Lys        | gag<br>Glu        | ttc<br>Phe<br>495 | ctg<br>Leu        | cag<br>Gln        | tcc<br>Ser        | agc<br>Ser        | ctg<br>Leu<br>500 | 1590 |
| agg<br>Arg        | gct<br>Ala        | ctt<br>Leu        | cgg<br>Arg        | caa<br>Gln<br>505 | atg<br>Met        | tagcatgggc        | accgtcgac         |                   |                   |                   |                   |                   |                   |                   |                   | 1627 |

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 Gly Val Glu Pro Glu Asp Asn Ala Thr Val His Trp Val Leu Arg Lys  
           30                  35                  40                  45  
 Pro Ala Ala Gly Ser His Pro Ser Arg Trp Ala Gly Met Gly Arg Arg  
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 Leu Leu Leu Arg Ser Val Gln Leu His Asp Ser Gly Asn Tyr Ser Cys  
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 Tyr Arg Ala Gly Arg Pro Ala Gly Thr Val His Leu Leu Val Asp Val  
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 Pro Pro Glu Glu Pro Gln Leu Ser Cys Phe Arg Lys Ser Pro Leu Ser  
           95                  100                  105  
 Asn Val Val Cys Glu Trp Gly Pro Arg Ser Thr Pro Ser Leu Thr Thr  
   110                  115                  120                  125  
 Lys Ala Val Leu Leu Val Arg Lys Phe Gln Asn Ser Pro Ala Glu Asp  
                   130                  135                  140  
 Phe Gln Glu Pro Cys Gln Tyr Ser Gln Glu Ser Gln Lys Phe Ser Cys  
           145                  150                  155  
 Gln Leu Ala Val Pro Glu Gly Asp Ser Ser Phe Tyr Ile Val Ser Met  
           160                  165                  170  
 Cys Val Ala Ser Ser Val Gly Ser Lys Phe Ser Lys Thr Gln Thr Phe  
           175                  180                  185  
 Gln Gly Cys Gly Ile Leu Gln Pro Asp Pro Pro Ala Asn Ile Thr Val  
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 Thr Ala Val Ala Arg Asn Pro Arg Trp Leu Ser Val Thr Trp Gln Asp  
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 Pro His Ser Trp Asn Ser Ser Phe Tyr Arg Leu Arg Phe Glu Leu Arg  
           225                  230                  235  
 Tyr Arg Ala Glu Arg Ser Lys Thr Phe Thr Thr Trp Met Val Lys Asp  
           240                  245                  250  
 Leu Gln His His Cys Val Ile His Asp Ala Trp Ser Gly Leu Arg His  
           255                  260                  265  
 Val Val Gln Leu Arg Ala Gln Glu Glu Phe Gly Gln Gly Glu Trp Ser  
   270                  275                  280                  285  
 Glu Trp Ser Pro Glu Ala Met Gly Thr Pro Trp Thr Glu Ser Arg Ser  
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 Pro Pro Ala Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly  
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 Gln Ile Arg Tyr Ile Leu Asp Gly Ile Ser Ala Leu Arg Lys Glu Thr  
 350 355 360 365  
 Cys Asn Lys Ser Asn Met Cys Glu Ser Ser Lys Glu Ala Leu Ala Glu  
 370 375 380  
 Asn Asn Leu Asn Leu Pro Lys Met Ala Glu Lys Asp Gly Cys Phe Gln  
 385 390 395  
 Ser Gly Phe Asn Glu Glu Thr Cys Leu Val Lys Ile Ile Thr Gly Leu  
 400 405 410  
 Leu Glu Phe Glu Val Tyr Leu Glu Tyr Leu Gln Asn Arg Phe Glu Ser  
 415 420 425  
 Ser Glu Glu Gln Ala Arg Ala Val Gln Met Ser Thr Lys Val Leu Ile  
 430 435 440 445  
 Gln Phe Leu Gln Lys Lys Ala Lys Asn Leu Asp Ala Ile Thr Thr Pro  
 450 455 460  
 Asp Pro Thr Thr Asn Ala Ser Leu Leu Thr Lys Leu Gln Ala Gln Asn  
 465 470 475  
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 <223> Description of Unknown Organism:A conjugate  
 comprising two polypeptides with a mutual  
 affinity.

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 Met Leu Ala Val Gly Cys Ala  
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| cgc<br>Arg<br>5   | tgc<br>Cys        | cct<br>Pro        | gcg<br>Ala        | cag<br>Gln        | gag<br>Glu<br>10  | gtg<br>Val        | gca<br>Ala        | aga<br>Arg        | ggc<br>Gly        | gtg<br>Val<br>15  | ctg<br>Leu        | acc<br>Thr        | agt<br>Ser        | ctg<br>Leu        | cca<br>Pro<br>20  | 150 |
| gga<br>Gly        | gac<br>Asp        | agc<br>Ser        | gtg<br>Val        | act<br>Thr<br>25  | ctg<br>Leu        | acc<br>Thr        | tgc<br>Cys        | ccg<br>Pro        | ggg<br>Gly<br>30  | gta<br>Val        | gag<br>Glu        | ccg<br>Pro        | gaa<br>Glu        | gac<br>Asp<br>35  | aat<br>Asn        | 198 |
| gcc<br>Ala        | act<br>Thr        | gtt<br>Val        | cac<br>His<br>40  | tgg<br>Trp        | gtg<br>Val        | ctc<br>Leu        | agg<br>Arg        | aag<br>Lys<br>45  | ccg<br>Pro        | gct<br>Ala        | gca<br>Ala        | ggc<br>Gly        | tcc<br>Ser<br>50  | cac<br>His        | ccc<br>Pro        | 246 |
| agc<br>Ser        | aga<br>Arg        | tgg<br>Trp<br>55  | gct<br>Ala        | ggc<br>Gly        | atg<br>Met        | gga<br>Gly        | agg<br>Arg<br>60  | agg<br>Arg        | ctg<br>Leu        | ctg<br>Leu        | ctg<br>Leu        | agg<br>Arg<br>65  | tcg<br>Ser        | gtg<br>Val        | cag<br>Gln        | 294 |
| ctc<br>Leu        | cac<br>His<br>70  | gac<br>Asp        | tct<br>Ser        | gga<br>Gly        | aac<br>Asn        | tat<br>Tyr<br>75  | tca<br>Ser        | tgc<br>Cys        | tac<br>Tyr        | cgg<br>Arg        | gcc<br>Ala<br>80  | ggc<br>Gly        | cgc<br>Arg        | cca<br>Pro        | gct<br>Ala        | 342 |
| ggg<br>Gly<br>85  | act<br>Thr        | gtg<br>Val        | cac<br>His        | ttg<br>Leu        | ctg<br>Leu<br>90  | gtg<br>Val        | gat<br>Asp        | gtt<br>Val        | ccc<br>Pro        | ccc<br>Pro<br>95  | gag<br>Glu        | gag<br>Glu        | ccc<br>Pro        | cag<br>Gln        | ctc<br>Leu<br>100 | 390 |
| tcc<br>Ser        | tgc<br>Cys        | ttc<br>Phe        | cgg<br>Arg        | aag<br>Lys<br>105 | agc<br>Ser        | ccc<br>Pro        | ctc<br>Leu        | agc<br>Ser        | aat<br>Asn<br>110 | gtt<br>Val        | gtt<br>Val        | tgt<br>Cys        | gag<br>Glu        | tgg<br>Trp<br>115 | ggc<br>Gly        | 438 |
| cct<br>Pro        | cgg<br>Arg        | agc<br>Ser        | acc<br>Thr<br>120 | cca<br>Pro        | tcc<br>Ser        | ctg<br>Leu        | acg<br>Thr        | aca<br>Thr<br>125 | aag<br>Lys        | gct<br>Ala        | gtg<br>Val        | ctc<br>Leu        | ttg<br>Leu<br>130 | gtg<br>Val        | agg<br>Arg        | 486 |
| aag<br>Lys        | ttt<br>Phe        | cag<br>Gln<br>135 | aac<br>Asn        | agt<br>Ser        | ccg<br>Pro        | gcc<br>Ala        | gaa<br>Glu<br>140 | gac<br>Asp        | ttc<br>Phe        | cag<br>Gln        | gag<br>Glu        | ccg<br>Pro<br>145 | tgc<br>Cys        | cag<br>Gln        | tat<br>Tyr        | 534 |
| tcc<br>Ser        | cag<br>Gln<br>150 | gag<br>Glu        | tcc<br>Ser        | cag<br>Gln        | aag<br>Lys        | ttc<br>Phe<br>155 | tcc<br>Ser        | tgc<br>Cys        | cag<br>Gln        | tta<br>Leu        | gca<br>Ala<br>160 | gtc<br>Val        | ccg<br>Pro        | gag<br>Glu        | gga<br>Gly        | 582 |
| gac<br>Asp<br>165 | agc<br>Ser        | tct<br>Ser        | ttc<br>Phe        | tac<br>Tyr        | ata<br>Ile<br>170 | gtg<br>Val        | tcc<br>Ser        | atg<br>Met        | tgc<br>Cys        | gtc<br>Val<br>175 | gcc<br>Ala        | agt<br>Ser        | agt<br>Ser        | gtc<br>Val        | ggg<br>Gly<br>180 | 630 |
| agc<br>Ser        | aag<br>Lys        | ttc<br>Phe        | agc<br>Ser        | aaa<br>Lys<br>185 | act<br>Thr        | caa<br>Gln        | acc<br>Thr        | ttt<br>Phe        | cag<br>Gln<br>190 | ggc<br>Gly        | tgt<br>Cys        | gga<br>Gly        | atc<br>Ile        | ttg<br>Leu<br>195 | cag<br>Gln        | 678 |
| cct<br>Pro        | gat<br>Asp        | ccg<br>Pro        | cct<br>Pro<br>200 | gcc<br>Ala        | aac<br>Asn        | atc<br>Ile        | aca<br>Thr        | gtc<br>Val<br>205 | act<br>Thr        | gcc<br>Ala        | gtg<br>Val        | gcc<br>Ala        | aga<br>Arg<br>210 | aac<br>Asn        | ccc<br>Pro        | 726 |
| cgc<br>Arg        | tgg<br>Trp        | ctc<br>Leu<br>215 | agt<br>Ser        | gtc<br>Val        | acc<br>Thr        | tgg<br>Trp        | caa<br>Gln<br>220 | gac<br>Asp        | ccc<br>Pro        | cac<br>His        | tcc<br>Ser        | tgg<br>Trp<br>225 | aac<br>Asn        | tca<br>Ser        | tct<br>Ser        | 774 |
| ttc<br>Phe        | tac<br>Tyr        | aga<br>Arg        | cta<br>Leu        | cgg<br>Arg        | ttt<br>Phe        | gag<br>Glu        | ctc<br>Leu        | aga<br>Arg        | tat<br>Tyr        | cgg<br>Arg        | gct<br>Ala        | gaa<br>Glu        | cgg<br>Arg        | tca<br>Ser        | aag<br>Lys        | 822 |

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240

|     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |     |  |      |
|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|-----|--|------|
| 230 |     | 235 |     |     |     |     |     |     |     |     |     |     |     |     |     |  |      |
| aca | ttc | aca | aca | tgg | atg | gtc | aag | gac | ctc | cag | cat | cac | tgt | gtc | atc |  | 870  |
| Thr | Phe | Thr | Thr | Trp | Met | Val | Lys | Asp | Leu | Gln | His | His | Cys | Val | Ile |  |      |
| 245 |     |     |     |     | 250 |     |     |     |     | 255 |     |     |     |     | 260 |  |      |
| cac | gac | gcc | tgg | agc | ggc | ctg | agg | cac | gtg | gtg | cag | ctt | cgt | gcc | cag |  | 918  |
| His | Asp | Ala | Trp | Ser | Gly | Leu | Arg | His | Val | Val | Gln | Leu | Arg | Ala | Gln |  |      |
|     |     |     |     | 265 |     |     |     |     | 270 |     |     |     |     | 275 |     |  |      |
| gag | gag | ttc | ggg | caa | ggc | gag | tgg | agc | gag | tgg | agc | ccg | gag | gcc | atg |  | 966  |
| Glu | Glu | Phe | Gly | Gln | Gly | Glu | Trp | Ser | Glu | Trp | Ser | Pro | Glu | Ala | Met |  |      |
|     |     |     | 280 |     |     |     |     | 285 |     |     |     |     | 290 |     |     |  |      |
| ggc | acg | cct | tgg | aca | gaa | tcc | agg | agt | cct | cca | gct | cga | gga | ggt | gga |  | 1014 |
| Gly | Thr | Pro | Trp | Thr | Glu | Ser | Arg | Ser | Pro | Pro | Ala | Arg | Gly | Gly | Gly |  |      |
|     |     | 295 |     |     |     |     | 300 |     |     |     |     | 305 |     |     |     |  |      |
| ggt | tct | gga | ggt | gga | ggt | tct | gtc | gag | cca | gta | ccc | cca | gga | gaa | gat |  | 1062 |
| Gly | Ser | Gly | Gly | Gly | Gly | Ser | Val | Glu | Pro | Val | Pro | Pro | Gly | Glu | Asp |  |      |
|     | 310 |     |     |     |     | 315 |     |     |     |     | 320 |     |     |     |     |  |      |
| tcc | aaa | gat | gta | gcc | gcc | cca | cac | aga | cag | cca | ctc | acc | tct | tca | gaa |  | 1110 |
| Ser | Lys | Asp | Val | Ala | Ala | Pro | His | Arg | Gln | Pro | Leu | Thr | Ser | Ser | Glu |  |      |
|     |     |     |     |     | 330 |     |     |     |     | 335 |     |     |     |     | 340 |  |      |
| cga | att | gac | aaa | caa | att | cgg | tac | atc | ctc | gac | ggc | atc | tca | gcc | ctg |  | 1158 |
| Arg | Ile | Asp | Lys | Gln | Ile | Arg | Tyr | Ile | Leu | Asp | Gly | Ile | Ser | Ala | Leu |  |      |
|     |     |     |     | 345 |     |     |     |     | 350 |     |     |     |     | 355 |     |  |      |
| aga | aag | gag | aca | tgt | aac | aag | agt | aac | atg | tgt | gaa | agc | agc | aaa | gag |  | 1206 |
| Arg | Lys | Glu | Thr | Cys | Asn | Lys | Ser | Asn | Met | Cys | Glu | Ser | Ser | Lys | Glu |  |      |
|     |     |     | 360 |     |     |     |     | 365 |     |     |     |     | 370 |     |     |  |      |
| gca | ctg | gca | gaa | aac | aac | ctg | aac | ctt | cca | aag | atg | gct | gaa | aaa | gat |  | 1254 |
| Ala | Leu | Ala | Glu | Asn | Asn | Leu | Asn | Leu | Pro | Lys | Met | Ala | Glu | Lys | Asp |  |      |
|     |     |     | 375 |     |     |     | 380 |     |     |     |     | 385 |     |     |     |  |      |
| gga | tgc | ttc | caa | tct | gga | ttc | aat | gag | gag | act | tgc | ctg | gtg | aaa | atc |  | 1302 |
| Gly | Cys | Phe | Gln | Ser | Gly | Phe | Asn | Glu | Glu | Thr | Cys | Leu | Val | Lys | Ile |  |      |
|     | 390 |     |     |     |     | 395 |     |     |     |     | 400 |     |     |     |     |  |      |
| atc | act | ggt | ctt | ttg | gag | ttt | gag | gta | tac | cta | gag | tac | ctc | cag | aac |  | 1350 |
| Ile | Thr | Gly | Leu | Leu | Glu | Phe | Glu | Val | Tyr | Leu | Glu | Tyr | Leu | Gln | Asn |  |      |
|     |     |     |     |     | 410 |     |     |     |     | 415 |     |     |     |     | 420 |  |      |
| aga | ttt | gag | agt | agt | gag | gaa | caa | gcc | aga | gct | gtg | cag | atg | agt | aca |  | 1398 |
| Arg | Phe | Glu | Ser | Ser | Glu | Glu | Gln | Ala | Arg | Ala | Val | Gln | Met | Ser | Thr |  |      |
|     |     |     |     | 425 |     |     |     |     | 430 |     |     |     |     | 435 |     |  |      |
| aaa | gtc | ctg | atc | cag | ttc | ctg | cag | aaa | aag | gca | aag | aat | cta | gat | gca |  | 1446 |
| Lys | Val | Leu | Ile | Gln | Phe | Leu | Gln | Lys | Lys | Ala | Lys | Asn | Leu | Asp | Ala |  |      |
|     |     |     | 440 |     |     |     |     | 445 |     |     |     |     | 450 |     |     |  |      |
| ata | acc | acc | cct | gac | cca | acc | aca | aat | gcc | agc | ctg | ctg | acg | aag | ctg |  | 1494 |
| Ile | Thr | Thr | Pro | Asp | Pro | Thr | Thr | Asn | Ala | Ser | Leu | Leu | Thr | Lys | Leu |  |      |
|     |     |     | 455 |     |     |     | 460 |     |     |     |     | 465 |     |     |     |  |      |
| cag | gca | cag | aac | cag | tgg | ctg | cag | gac | atg | aca | act | cat | ctc | att | ctg |  | 1542 |
| Gln | Ala | Gln | Asn | Gln | Trp | Leu | Gln | Asp | Met | Thr | Thr | His | Leu | Ile | Leu |  |      |
|     | 470 |     |     |     |     | 475 |     |     |     |     | 480 |     |     |     |     |  |      |
| cgc | agc | ttt | aag | gag | ttc | ctg | cag | tcc | agc | ctg | agg | gct | ctt | cgg | caa |  | 1590 |

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atg tagcatgggc accgtcgac  
 Met

1612

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Gly Ala Ala Leu Ala Pro Arg Arg Cys Pro Ala Gln Glu Val Ala Arg  
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Gly Val Leu Thr Ser Leu Pro Gly Asp Ser Val Thr Leu Thr Cys Pro  
 15 20 25

Gly Val Glu Pro Glu Asp Asn Ala Thr Val His Trp Val Leu Arg Lys  
 30 35 40 45

Pro Ala Ala Gly Ser His Pro Ser Arg Trp Ala Gly Met Gly Arg Arg  
 50 55 60

Leu Leu Leu Arg Ser Val Gln Leu His Asp Ser Gly Asn Tyr Ser Cys  
 65 70 75

Tyr Arg Ala Gly Arg Pro Ala Gly Thr Val His Leu Leu Val Asp Val  
 80 85 90

Pro Pro Glu Glu Pro Gln Leu Ser Cys Phe Arg Lys Ser Pro Leu Ser  
 95 100 105

Asn Val Val Cys Glu Trp Gly Pro Arg Ser Thr Pro Ser Leu Thr Thr  
 110 115 120 125

Lys Ala Val Leu Leu Val Arg Lys Phe Gln Asn Ser Pro Ala Glu Asp  
 130 135 140

Phe Gln Glu Pro Cys Gln Tyr Ser Gln Glu Ser Gln Lys Phe Ser Cys  
 145 150 155

Gln Leu Ala Val Pro Glu Gly Asp Ser Ser Phe Tyr Ile Val Ser Met  
 160 165 170

Cys Val Ala Ser Ser Val Gly Ser Lys Phe Ser Lys Thr Gln Thr Phe  
 175 180 185

Gln Gly Cys Gly Ile Leu Gln Pro Asp Pro Pro Ala Asn Ile Thr Val  
 190 195 200 205

Thr Ala Val Ala Arg Asn Pro Arg Trp Leu Ser Val Thr Trp Gln Asp  
 210 215 220

Pro His Ser Trp Asn Ser Ser Phe Tyr Arg Leu Arg Phe Glu Leu Arg  
 225 230 235

Tyr Arg Ala Glu Arg Ser Lys Thr Phe Thr Thr Trp Met Val Lys Asp  
 240 245 250



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Leu Gln His His Cys Val Ile His Asp Ala Trp Ser Gly Leu Arg His  
 255 260  
 Val Val Gln Leu Arg Ala Gln Glu Glu Phe Gly Gln Gly Glu Trp Ser  
 270 275 280 285  
 Glu Trp Ser Pro Glu Ala Met Gly Thr Pro Trp Thr Glu Ser Arg Ser  
 290 295 300  
 Pro Pro Ala Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Val Glu  
 305 310 315  
 Pro Val Pro Pro Gly Glu Asp Ser Lys Asp Val Ala Ala Pro His Arg  
 320 325 330  
 Gln Pro Leu Thr Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile  
 335 340 345  
 Leu Asp Gly Ile Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn  
 350 355 360 365  
 Met Cys Glu Ser Ser Lys Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu  
 370 375 380  
 Pro Lys Met Ala Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn Glu  
 385 390 395  
 Glu Thr Cys Leu Val Lys Ile Ile Thr Gly Leu Leu Glu Phe Glu Val  
 400 405 410  
 Tyr Leu Glu Tyr Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala  
 415 420 425  
 Arg Ala Val Gln Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys  
 430 435 440 445  
 Lys Ala Lys Asn Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn  
 450 455 460  
 Ala Ser Leu Leu Thr Lys Leu Gln Ala Gln Asn Gln Trp Leu Gln Asp  
 465 470 475  
 Met Thr Thr His Leu Ile Leu Arg Ser Phe Lys Glu Phe Leu Gln Ser  
 480 485 490  
 Ser Leu Arg Ala Leu Arg Gln Met  
 495 500

<210> 5  
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<220>  
 <223> Description of Unknown Organism: A conjugate  
 comprising two polypeptides with a mutual  
 affinity.

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 Met Asn Ser Phe Ser Thr Ser Ala Phe Gly Pro Val Ala Phe Ser Leu  
 1 5 10 15

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Gly Leu Leu Leu Val Leu Pro Ala Ala Phe Pro Ala Pro Val Pro Pro  
20 25 30  
Gly Glu Asp Ser Lys Asp Val Ala Ala Pro His Arg Gln Pro Leu Thr  
35 40 45  
Ser Ser Glu Arg Ile Asp Lys Gln Ile Arg Tyr Ile Leu Asp Gly Ile  
50 55 60  
Ser Ala Leu Arg Lys Glu Thr Cys Asn Lys Ser Asn Met Cys Glu Ser  
65 70 75 80  
Ser Pro Glu Ala Leu Ala Glu Asn Asn Leu Asn Leu Pro Lys Met Ala  
85 90 95  
Glu Lys Asp Gly Cys Phe Gln Ser Gly Phe Asn Glu Glu Thr Cys Leu  
100 105 110  
Val Lys Ile Ile Thr Gly Leu Leu Glu Phe Glu Val Tyr Leu Glu Tyr  
115 120 125  
Leu Gln Asn Arg Phe Glu Ser Ser Glu Glu Gln Ala Arg Ala Val Gln  
130 135 140  
Met Ser Thr Lys Val Leu Ile Gln Phe Leu Gln Lys Lys Ala Lys Asn  
145 150 155 160  
Leu Asp Ala Ile Thr Thr Pro Asp Pro Thr Thr Asn Ala Ser Leu Leu  
165 170 175  
Thr Lys Leu Gln Ala Gln Asn Gln Trp Leu Glu Asp Met Pro Thr His  
180 185 190  
Leu Ile Leu Arg Ser Leu Lys Glu Phe Leu Gln Arg Ser Leu Arg Ala  
195 200 205  
Leu Arg Gln Met  
210

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<211> 20  
<212> DNA  
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<400> 6  
taatacgact cactataggg 20

<210> 7  
<211> 25  
<212> DNA  
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ccgctcgagc tggaggactc ctgga 25

<210> 8  
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<400> 8  
cggctcgagc cagtaccccc aggagaa 27

<210> 9  
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<213> Sonstige Nucleinsaure

<400> 11  
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<210> 12  
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<400> 12  
tcgaggaggt ggaggttctg gaggtggagg ttctg 35

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<212> DNA  
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<400> 13  
tcgacagaac ctccacctcc agaacctcca cctcc 35

<210> 14  
<211> 19  
<212> PRT  
<213> Unknown

<220>  
<223> a signal peptide which is a conjugate comprising  
one of two polypeptides with a mutual affinity

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1 5 10 15  
Gly Ala Ala

<210> 15  
 <211> 18  
 <212> PRT  
 <213> Unknown

<220>  
 <223> a linker peptide which is a conjugate comprising  
 one of two polypeptides with a mutual affinity

<400> 15  
 Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser  
 1 5 10 15  
 Val Glu

<210> 16  
 <211> 13  
 <212> PRT  
 <213> Unknown

<220>  
 <223> a linker peptide which is a conjugate comprising  
 one of two polypeptides with a mutual affinity

<400> 16  
 Arg Gly Gly Gly Gly Ser Gly Gly Gly Gly Ser Val Glu  
 1 5 10

<210> 17  
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<220>  
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